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TRANSMITTAL LETTER TO TH  DESIGNATED/ELECTED OFF  CONCERNING A FILING UND	FICE (DO/EO/US)	U.S. APPLICATION NO. (1f known, see 37 CFR 1.5) 09/831320
INTERNATIONAL APPLICATION NO. PGT/EP99/08404	INTERNATIONAL FILING DATE 3 NOVEMBER 1999	PRIORITY DATE CLAIMED 6 NOVEMBER 1998
TITLE OF INVENTION PROCESS FOR THE PRODUCTION OF A I MATERIAL PRODUCED BY THIS PROCE		ATERIAL AND THE COMPOSITE
APPLICANT(S) FOR DOÆO/US WALTER GÜNTER		
Applicant herewith submits to the United States Designated	d/Elected Office (DO/EO/US) the following	items and other information:
1. X This is a <b>FIRST</b> submission of items concerning at this is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission.		S.C. 371
This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submiss X  This is an express request to begin national examination until the expiration of the applicable	ination procedures (35 U.S.C. 371 (f)) at any	time rather than delay
X A proper Demand for International Preliminary E priority date.		
X A copy of the International Application as filed (3 a. X is transmitted herewith (required only if b. has been transmitted by the International c. is not required, as the application was file	not transmitted by the International Bureau Bureau.	
X A translation of the International Application into	English (35 U.S.C. 371(c)(2)).	
b. have been transmitted by the International	f not transmitted by the International Bureau Il Bureau. mit for making such amendments has <b>NOT</b>	).
8 A translation of the amendments to the claims un	der PCT Article 19 (35 U.S.C. 371(c)(3)).	
9. X An oath or declaration of the inventor(s) (35 U.S	.C. 371(c)(4)).	
10 A translation of the annexes to the International I (35 U.S.C. 371(c)(5)).	Preliminary Examination Report under PCT	Article 36
Items 11. to 16. below concern other document(s) of	r information included:	
11. X An Information Disclosure Statement under 37 (	CFR 1.97 and 1.98.	
12. X An assignment document for recording. A separ	ate cover sheet in compliance with 37 CFR	3.28 and 3.31 is included.
13. X A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary	amendment.	
14 A substitute specification.		
15 A change of power of attorney and/or address le	tter.	
16. X Other items or information:		
PCT/ISA/210 - Int'l. Search Report (English) 1 SHEET OF FORMAL DRAWINGS	•	
Applicant Claims Priority under 35 U.S.C. §119 of Germa Applicant Claims Priority under 35 U.S.C. §120 of: PCT/		nber 6, 1998.

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above, and is addressed to the Ass't. Commissioner for Patents, Washington, D.C. 20231

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PATENT

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

WALTER GÜNTER - 2 (PCT)

PCT NO.:

PCT/EP99/08404

FILED:

NOVEMBER 3, 1999

TITLE:

PROCESS FOR THE PRODUCTION OF A MULTILAYER COMPOSITE MATERIAL AND THE COMPOSITE MATERIAL

PRODUCED BY THIS PROCESS

# PRELIMINARY AMENDMENT

# BOX PCT

Ass't. Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Preliminary to the initial Office Action, please amend the above-identified application as follows:

## IN THE SPECIFICATION:

On Page 1, above line 1, please insert the following paragraphs:

# -- CROSS REFERENCE TO RELATED APPLICATIONS

Applicant claims priority under 35 U.S.C. §119 of German Application No. 198 51 104.3 filed November 6, 1998. Applicant also claims priority under 35 U.S.C. §120 of PCT/EP99/08404 filed November 3, 1999. The international application under PCT article 21(2) was not published in English.--

## IN THE CLAIMS:

Please cancel claims 1-13 and replace them with new claims 14-26 as follows:

- --14. A process for the production of a multilayer composite material (1, 21) with a plastic layer (4, 24) that has release properties with respect to adhesives, where the materials producing the release properties are located within the plastic layer, wherein a first web (2, 22) is provided in production of the composite material (1, 21) on one side of which a layer of adhesive (3, 23) is located, after which the plastic layer (4, 24) with the release properties will follow, which is in turn bonded to a second web (5, 25).
- 15. Process according to claim 14, wherein a web of paper or a similar material is provided as the first web (2, 22).
- 16. Process according to claim 14, wherein metal foil is provided as the first web (2, 22).
- 17. Process according to claim 14, wherein a nonwoven fabric is provided as the first web (2, 22).
- 18. Process according to claim 14, wherein the layers are extruded onto the first web (2, 22) simultaneously by the coextrusion process.

- 19. Process according to claim 14, wherein a web of paper or a similar material is provided as the second web (5, 25).
- 20. Process according to claim 19, wherein the layers including the first web (2, 22) are extruded onto the second web (5, 25).
- 21. Process according to claim 14, wherein at least the adhesive layer (3, 23) and the layer (4, 24) with the release properties are extruded between the two webs (2, 22 and 5, 25).
- 22. Process according to claim 14, wherein the first and/or second web (2, 22; 5, 25) are oriented if plastic is used for one or both of them.
- 23. Process according to claim 22, wherein a web (2, 22; 5, 25) which is pre-produced from plastic is oriented before it is used.
- 24. Multilayer composite material produced in accordance with the process as described in claim 14, wherein a first web (2, 22) and at least a second web (5, 25) are provided, between which a layer of adhesive (3, 23) and a further layer (2, 24) that has release properties with respect to the adhesive are located.

- Multilayer composite material according to claim 24, wherein further layers (26) are provided that are located on the outside of the first web (2, 22) and/or the second web (5, 25).
- Multilayer composite material according to claim 24, wherein the first and/or second web (2, 5, 22, 25) are made from an oriented plastic film .--

#### REMARKS

By this Preliminary Amendment, the application has been amended to conform with U.S. practice, the cross-reference to related applications has been inserted on page 1 and claims 1-13 have been replaced by new claims 14-26. No new matter has been Entry of this amendment is respectfully requested. introduced.

Respectfully submitted,

WALTER GÜNTER - 2 (PCT)

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Attorneys for Applicants

Express Mail No. <u>EL 769 391 415 US</u> Date of Deposit May 7, 2001

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4P Folie Forchheim GmbH

Multilayer composite material

# Description

Process for the production of a multilayer composite material and the composite material produced by this process

The invention relates to a process for the production of a multilayer composite material with a plastic layer that has release properties with respect to adhesives, where the materials producing the release properties are located within the plastic layer.

The purpose of the invention is to indicate a process with which a composite material can be produced efficiently from a first web that can be designed to be a substrate web, an adhesive, a release layer and a second web that can also be designed to be a substrate web for the release layer.

In the solution to this problem proposed by the invention, a first web is provided in production of the composite material on one side of which a layer of adhesive is located, after which the plastic layer with the release properties will follow, which is in turn bonded to a second web.

In a particularly advantageous development of the invention, a web of paper or a similar material is provided as the first web.

The adhesive layer, the release layer and a second web that acts as the substrate web for the release layer are applied to this paper web.

A web made from metal foil can be provided instead of the paper web in accordance with a further development of the invention.

It is also possible in accordance with a further development of the invention that a nonwoven fabric is provided as the first web.

A particularly advantageous development of the invention is characterised by the fact that the layers are extruded onto the first web simultaneously by the coextrusion process.

In another advantageous development of the invention, a web of paper or a different pre-produced material is provided as the second web.

It is particularly advantageous if in accordance with a further development of the invention the layers including the first web are extruded onto the second web.

It can also be very advantageous if in accordance with a further development of the invention at least the adhesive layer and the layer with the release properties are extruded between the two webs.

In another advantageous development of the invention, the first and/or second web are oriented if plastic is used for one or both of them.

The strength of these webs is increased considerably by doing this.

It is also very advantageous if in accordance with a further development of the invention a web which is pre-produced from plastic is oriented before it is used.

In accordance with an advantageous development of the invention, a multilayer composite material is characterised by the fact that a first web and at least a second web are provided, between which a layer of adhesive and a further layer that has release properties with respect to the adhesive are located.

In a further advantageous development of the multilayer composite material, further layers are provided that are located on the outside of the first web and/or the second web.

It has also proved to be very advantageous if in accordance with a further development of the invention the first and/or second web are made from an oriented plastic film.

Two embodiments of the invention are illustrated in the drawings:

- Fig. 1 shows a four-layer composite material with a web of paper as the substrate web and
- Fig. 2 shows a five-layer composite material, in which a nonwoven fabric is provided as the substrate web for the adhesive layer.

1 in Fig. 1 is a composite material that includes a first web 2 made of paper. A layer of adhesive 3, a layer 4 that has release properties with respect to the adhesive and a plastic layer 5 have been applied to this paper web 2 by the coextrusion process. The other side of the paper web 2 can be provided with other coatings in the same process operation too.

A composite material 21 consisting of five layers is provided in the embodiment shown in Fig. 2, where the first web 22 is made from a nonwoven fabric. Different web

materials such as metal are possible alternatives to paper or nonwoven fabric. A layer of adhesive 23, a release layer 24, a plastic layer 25 and a covering layer 26 for the plastic layer have been applied to the web 22 by the coextrusion process.

A second web which consists of paper, nonwoven fabric, metal or plastic and onto which the other layers are extruded can be used in both embodiments instead of the plastic layer 5 or 25.

It is conceivable in addition to this that two pre-produced webs are used, between which the other layers are applied at the same time by the extrusion process. It is also possible in this context to coat the outsides of the two pre-produced webs in the same process operation.

When paper is used as the substrate material for the first web, smooth, printable papers are primarily used for the side that is coated with adhesive.

Simple, inexpensive papers are on the other hand also used for the second web that is provided with a release layer.

When plastic webs are used, they can be oriented before they are processed, while webs that consist exclusively of plastic can also be oriented after production of the composite material has been completed.

If the two webs or layers 2, 22 and 5, 25 are made out of plastic, different plastics can be used for them, irrespective of whether they are processed as finished webs or are extruded. LDPE, LLDPE, HDPE, mPE, PS, PET, PETP, PP and OPP are particularly advantageous in this context.

The material thickness varies between 20 and 200  $\boldsymbol{\mu}$  here.

Possible adhesives are extrudable, permanently tacky adhesives based on hotmelts and polyolefins with appropriate tackifying additives. SIS, SBS, SEBS and SEP block copolymers with melt indices of between 8 and 65 g / 10 min at 200° C and 5 kg have, for example, been used. The styrene content of the polymers varies between 10 and 35%. The properties of the adhesive layer are controlled by the addition of resins and plasticisers, e.g. by means of aliphatic hydrocarbon resins, polyterpene resins, hydrolysed hydrocarbon resins, aromatic hydrocarbon resins, paraffin waxes, microcrystalline waxes, polyisobutylene and process oils.

Liquid components are processed into an extrudable form by carrying out a compounding operation beforehand.

Another way to produce the adhesive layer involves the inclusion of UV acrylates or UV-cured PSAs between the other layers by using melt transport technology.

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Multilayer composite material

## Claims

- 1. A process for the production of a multilayer composite material (1, 21) with a plastic layer (4, 24) that has release properties with respect to adhesives, where the materials producing the release properties are located within the plastic layer, **wherein** a first web (2, 22) is provided in production of the composite material (1, 21) on one side of which a layer of adhesive (3, 23) is located, after which the plastic layer (4, 24) with the release properties will follow, which is in turn bonded to a second web (5, 25).
- 2. Process according to claim 1, wherein a web of paper or a similar material is provided as the first web (2, 22).
- 3. Process according to claim 1, wherein metal foil is provided as the first web (2, 22).
- 4. Process according to claim 1, wherein a nonwoven fabric is provided as the first web (2, 22).

- 5. Process according to one of the claims 1 to 4, wherein the layers are extruded onto the first web (2, 22) simultaneously by the coextrusion process.
- 6. Process according to one of the previous claims, wherein a web of paper or a similar material is provided as the second web (5, 25).
- 7. Process according to claim 6, wherein the layers including the first web (2, 22) are extruded onto the second web (5, 25).
- 8. Process according to one of the previous claims, **wherein** at least the adhesive layer (3, 23) and the layer (4, 24) with the release properties are extruded between the two webs (2, 22 and 5, 25).
- 9. Process according to claim 1, wherein the first and/or second web (2, 22; 5, 25) are oriented if plastic is used for one or both of them.
- 10. Process according to claim 9, wherein a web (2, 22; 5, 25) which is preproduced from plastic is oriented before it is used.
- Multilayer composite material produced in accordance with the process as described in one of the previous claims, wherein a first web (2, 22) and at least a second web (5, 25) are provided, between which a layer of adhesive (3, 23) and a further layer (2, 24) that has release properties with respect to the adhesive are located.
- 12. Multilayer composite material according to claim 11, wherein further layers (26) are provided that are located on the outside of the first web (2, 22) and/or the second web (5, 25).
- 13. Multilayer composite material according to claim 11 or 12, wherein the first and/or second web (2, 5, 22, 25) are made from an oriented plastic film.

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4P Folie Forchheim GmbH

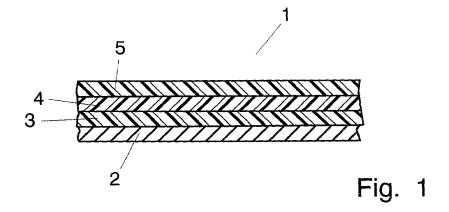
Multilayer composite material

# Summary

Process for the production of a multilayer composite material and the composite material produced by this process

Process for the production of a multilayer composite material with a plastic layer that has release properties with respect to adhesives, where the materials producing the release properties are located within the plastic layer, where a first web is provided in production of the composite material on one side of which a layer of adhesive is located, after which the plastic layer with the release properties follows, which is in turn bonded to a second web.

Fig. 1



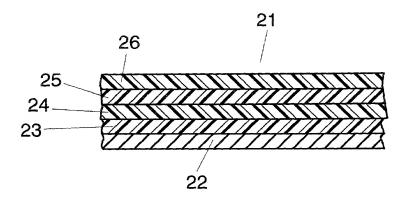


Fig. 2

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As a below named inventor, I hereby declate that:

the specification of which (check only one item below):

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

# Process for the Production of a Multilayer Composite Material and the Composite Material Produced by this Process

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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37. Code of Federal Regulations, §1.56(a),

I hereby claim foreign priority benefits under Title 35. United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATS OF FILING (day, month, yew)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
GERMANY	198 51 104.3	6 NOVEMBER 1998	[X ] YES [] NO
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